

## the HAMATEUR

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 31/91....WA9RYO...Al Bingenheimer..464-8488 Ozaukee..WA9BMA...Ed Bach.....284-2664/Metro 242-3420  
 93/33....WB9BSO...Bruce Herrick....964-6536 Racine...W9HI.....Stu Stewart.....539-2680  
 QCWA....W9VQD....Travis Baird.....352-9642

### WA9 Just Mouthing Off

I am happy to welcome aboard the 133 members of the Wisconsin Chapter of the Quarter Century Wireless Association (QCWA) who joins our growing family with this issue. I am pleased to say we now have 865 club members, 90% residing within a 60 mile radius of Milwaukee, 6% in greater Wisconsin and the other 4% scattered across our beautiful country, from Florida to Alaska, and Maine to Hawaii, with representative samples in Florida, California and Illinois.

During the past month, I have been attending club meetings, socializing, listening and promoting this newsletter, trying to solicit articles of interest. I am especially looking for old Amateur photos from the '20s up to and including the '70s—also technical items of a simplistic nature which can be submitted to our new tech Editor, Steve Reyer, WA9VNJ, who is taking over from Joel, K9TBD. Joel is leaving our lovely city. If your technical article has a diagram to accompany it, we would be most appreciative if it were drawn with black ink and of a quality and size (see previous issues of this publication for format) as to save some wear and tear on our tech department. Related text can be hand written, but typed would also be most appreciated. I am also looking for Amateur related human interest stories. If you have or know of any, please let me know.

Special events will be publicized if known. If your club has a special meeting or event coming up—auction, election or whatever—let me know a couple of months in advance of such occasion and I will so list that event on our cover. Advance meeting notices would also be helpful—to eliminate the errors of my calculating such occurrence.

The cost of this paper is shared by the above listed clubs at the rate of \$.15 per member per month. The time and work going into the setting up of each issue is donated by those names appearing above. There are also many individuals participating who wish not to be recognized in print. To all of you, my undying gratitude.

The very best of 73's Larry, WA9JMO

### CLUB News

### M·R·A·C

The next regular meeting will be held on April 28, 1977, at our new location: Wauwatosa Savings and Loan, 7500 W. State Street. (use the State Street entrance) Our speaker will be Mr. Harold Isenring, W9BTI, whose topic will be: "WWVB Signal Processor" His talk and demo will be on how to link your frequency counter time base to WWVB in Boulder, Colorado.

Coming events include nomination of officers in April. An auction will be held May 26, 1977.

Happy to report I'm out of the hospital and recuperating at home. My thanks for all the cards and the visits both in person and via the land line.

73's Al Belanger, W9MDG

## R. Mc. C.

The Racine Megacycle Club meets on the second Monday of each month at the American Red Cross Building, Taylor Ave. Road, at 7:30 P.M. WA9HOH is president and welcomes all interested people to attend. WA9TBR reports that we have \$337.08 in the club treasury.

Racine Alderman Mr. Les Lucareli presented a newly proposed Ordinance, No. 9-77, to create Chapter 25.19 and to amend 25.41 dealing specifically with Citizens Band Radios in the City of Racine. Many CB radio operators are causing a great deal of radio/TV/Hi Fi interference. They are misusing privileges, threats of life and limb, and profanity in Racine. Basically the Ordinance seeks to provide local control of CB operators in violation of Federal Communication Rules and Regulations. RMC members expressed mixed emotions about the ordinance and questioned its legality in regards to enforcing Federal laws. Public hearing of this Ordinance will be held soon. All concerned members are urged to attend.

K9MLD reports that the local repeater club is looking for tower sections to improve the range of the new repeater. All club members are asked to look in the corner of the junk piles for any.

W9HAG encouraged members to join the American Red Cross.

WA9HOH repeated our needs for an all-band dipole antenna to serve as a guy wire for the Red Cross tower.

WB9VHK needs help with the Tuesday evening Amateur Radio Course. If you can help, please give Daryl a call at 633-1529 or Dave, WB9USI, at 554-7565.

The Feb meeting was our annual auction sale, and at our March meeting we will have a talk by the Racine Police Dept. on Crime Prevention and Burglary.

Any news will be welcomed for this paper and can be given to W9HI, Stu, 539-2680. C.U. on 147.87-27, 29.6, 3.920 or 3.662 and at the next meeting.

73, Stu

## Q.C.W.A.

In the spring, all QCWAer's thoughts turn to schooners of Miller High Life! So please be alerted to QCWA Night at the Miller Inn, 4000 W. State Street, Milwaukee, Friday, April 15, at 7:00 P.M.

It's also time to start planning to attend the spring luncheon and meeting at 11:00 A.M., June 4, at Smith's Fish Shanty in Port Washington. Remember the fine time we had there two years ago?

We are happy to report that Al Belanger, W9MDG, is out of the hospital and recovering nicely at home--the results of a heart attack.

73's Travis, W9VQD

50MHz

6-MIC

50MHz

MEETING DATE: 25 April 1977 LOCATION: 1849 Church Street, Wauwatosa TIME: 7:30 P.M.

ELECTIONS, 1977: This month the Six Meter Interest Club will be having their annual election of officers. Now is the time for all club members to get into the act. What kind of club do you want? Indifference and inactivity will not promote an active and vital club; nor will it promote the growth of six meter activity.

Many Ham Radio clubs have come and gone.....clubs with great goals and intentions. Will the Six Mic Club be one of them? The choice is up to you.

There are four club positions that have to be filled—President, Vice-President, Secretary/Treasurer and Activities Chairman. Two other positions also need to be filled. They are the positions of Net Control Station and Club Reporter.

Six Mic needs an imaginative and active slate of officers to keep the ball rolling. But, it makes no difference as to who are elected to these jobs. They will need the support of all club members to get their jobs done. Do not be afraid to volunteer to help on committees, etc. Past officers of the club can name all of the common excuses for not helping—and also some not so common excuses! In all seriousness, if you want Six Mic to continue, as an active and vibrant organization to advance 6 Meters, get active on 6! Be active in club activities and attend the April meeting so you can exercise your vote and be heard.

ACT NOW, OR THERE MAY NOT BE A 6 MIC CLUB COME MAY 1!

73's Art, WA9UXL

COMMENTS FROM SIX METER NET CONTROL:

- (1) SMIRK averages 26 Check-in per Net. A minimum of 10 and a maximum of 51.
- (2) Our average has been 4. A minimum of ZERO and a maximum of 14. This includes both the AM and SSB Nets.
- (3) I would not object to continuing as Net Control Station, but I am thoroughly disgusted with present activity on the Nets.
- (4) How many of you have Six Meter gear sitting in the shack gathering dust (or rust)?
- (5) How many of you have comments that could stimulate conversation on the Nets? Why not give it a try.

73's WB9WWP, Net Control, 6 Mic

the HAMATEUR

Sixty operators transmitted 95 messages to Milwaukee City Government's Operating Center in only 90 minutes March 2, when the Milwaukee A.R.E.S. conducted its Simulated Emergency Test. The E.O.C. attempted to overload our system with messages. However, the expertise of those who participated actually overloaded only the Emergency Government personnel. Bob, WB9NNJ, wishes to thank all of the Op's for their participation and discipline. With special thanks to the 25/85 and 31/91 repeater groups for the use of their repeaters during the drill. The officials of the safety organizations, which observed the drill, were impressed with Amateur Radio. There are some that didn't know we exist. THEY DO NOW!

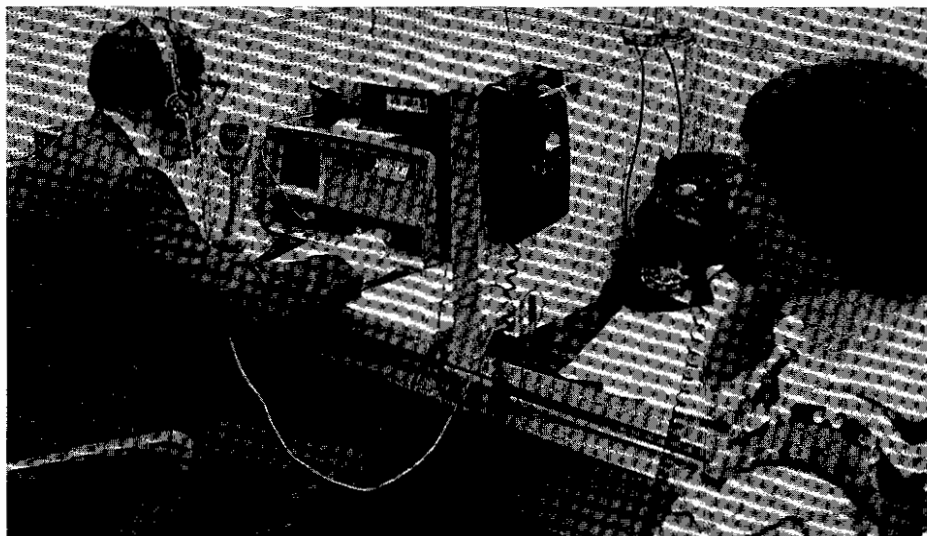
It was announced at the last A.R.E.S. meeting on March 1 that Sheriff Wolke had approved the installation and monthly rental cost of another telephone tie-line between the repeater site and the Public Safety building. This line will be used as a "touch-tone" direct access line to the Sheriff's radio dispatcher. When the line is installed and is operational, all amateurs will be given the access code so that emergency messages may be transmitted directly from a mobile operator without the need of going through a fixed station as we have in the past. More information will be put out as soon as it is available.

73's Dow, WB9VKC

#### S.E.T. A.R.E.S. PHOTOS



Bob, WB9NNJ (on right), worries about the 25/85 machine getting on the air in time for the drill, while Rees, K9UUT, knows his plan will work (photo credit: PHOTO-COMM WB9ODO & WB9WSB)



(L-R) John, WB9SMM and Glen, WB9NDM, 67 Ops at E.O.C. (photo credit: PHOTO-COMM)

**April Business Meeting:** Wednesday the 6th at 7:30 P.M. in the Civil Air Patrol Waukesha Emergency Government room, at Waukesha City Hall. An auction will be held. Bring your old junk and make a buck or two. Perhaps you can spend it on some new junk for your shack. If you need directions, talk in on 146.94 or 147.93/33. You don't have to be a member to participate....just don't forget to bring your auction items.

**Autopatch Service:** Due to the cost involved, is limited to member stations only. Please use the following procedures when using WR9AFS autopatch. (1) Announce "WR9AFS this is (your call) accessing autopatch."

(Both calls must be given in compliance with FCC rule 97.87 (a). (2) Transmit autopatch access code.

(3) Release push-to-talk switch and wait for dial tone. Then proceed as with any normal phone call.

(4) When completed with your call, disconnect autopatch. You should hear the reset "beep". (5) Announce "WR9AFS this is (your call) clear autopatch". Remember, amateur radio is not for business use.

Ma Bell was doing some line work on the repeater site when a ladder fell on the electric meter putting the machine off the air for a short time. Goes to show anything can happen.

Any station wishing membership information can contact our treasurer, Steve Braatz, WA9WYF, at 647-1971 or our president, Lee Benson, WB9TPD, at 771-8797. See you at the April meeting and on 33.

73's Lee, WB9TPD

The March 9th meeting was brief indeed. The better part of the evening was devoted to a well attended auction. While a few of the members known to have huge piles of junk showed up with nothing, others got into the spirit of the event and took the trouble to haul in all sorts of heavy "surplus". Most of it got sold. Three hours of hard work, threats, pleading and sarcasm on the part of the auctioneers produced a gross of about \$100.00, and a lot of laughs. Some of the buyers are still trying to figure out what they bought.

The new club roster is out. Separate rosters are available for general membership and repeater membership. If you didn't get yours, they are available from the secretary.

The next club meeting will be April 13th, same place, 7:30 PM. The program will feature a film on police dispatching. If you have a problem with a project, or are looking for a part(s), don't forget to let the president know before the meeting. The whole club will be advised of your problem, and hopefully, the whole club will get to work on it.

Herb WA9UVK is still trying to get a Novice Class together. Give him a call at 377-3307 if you are interested. If not, get the word out to those that are.

For late news, check the weekly net, 3940 KHZ, Sunday, 1300 Local.

#### TENTH ANNIVERSARY

The month of April, 1977, brings approximately the tenth anniversary of what is now an Ozaukee County institution. Did you fellowsever hear of two meter FM? Well, late in the winter of 1967 Harvey K9EOY and Bill W9VLL managed to get a pair of receiver-transmitter combinations on the chosen frequency, 146.55 MHZ. This frequency was selected after a considerable amount of investigation. The choice has stood the test of time quite well. Except for a few brief intervals, 146.55 has been relatively exclusive. A secondary frequency of 146.67 was also chosen. Wonder what ever happened to it?

In this day of multi-digit frequency counters, it is no trick to bring two meter crystal controlled rigs in right on the button. How did you manage to get a pair of rigs (not three, but two) netted then? By near endless fiddling around, that's how. The establishment of a link between Port Washington and Grafton by Harvey and Bill was quite an accomplishment. Everyone else netted in on them. Of course, there were problems. Ed WA9BMA had a great deal of trouble finding a crystal that would put his Sperry on frequency. Out of desperation, he decided to try a resonant circuit ..... as a crystal substitute. About this time Bill W9VLL had just installed a very sensitive meter on his discriminator. When the rig was fired up with the resonant circuit substitute in it, the first thing that happened was that Bill's nice new meter went off scale so violently that it was permanently damaged. Bill is still trying to get Ed to pay for that meter. The second thing that happened was that Ed got an SWL report from WAD to the effect that he was Q5 across the better part of Marine VHF. Fortunately, Bert W9OFM was working the board at the time. He knew who to call.

Early in 1967 Faus WA9GDA negotiated a deal which produced about twenty RCA Carphones. Activity began to surge. It was also about this time that repeater activity started to become prominent. A group down in Waukegan got a brilliant idea. They put up a repeater on 145.95/146.55. When the spring temperature inversions lengthened out the paths, Waukegan found that some of the Ozaukee County signals were stronger in their area than their own output. This did not discourage them. Some of the locals, who shall remain nameless, then found out what a nice quiet frequency 145.95 was for simplex. It wasn't too long before the problem in Ozaukee County disappeared.

The frequency remains monitored on a near twenty-four hour per day basis. Occasionally somebody from outside of the county checks in. Once in a while somebody will come back to a stranger. On the whole though, the frequency remains the intra-county intercom for Ozaukee County.

73 Ed WA9BMA

Welcome to all 1977 members of MRC. Thus far, we have 150 members, but many more users. Remember, if we are to break even, we need 205 full time members this year. Dues are \$10 a year.

#### MRC SYSTEM INFORMATION

Call sign: WR9ABM

Frequency: Input 146.31 MHz (7KHz deviation), output 146.91 MHz

Location: 20000 W. National Avenue (Prospect Hill), New Berlin

Antenna: 6 db vertical mounted on the north leg of the tower

Antenna Height: 360 feet (approx. 1365 feet above sea level)

Receiver and transmitter are duplexed through a Sinclair duplexer

Timer: 2 minutes 50 seconds

Power: 80 watts E.R.P.

Carrier access (tone burst 2250 Hz optionally) 24 hour operation

Emergency power: Battery to supply power for about 2 weeks of operation at reduced power (6 watts E.R.P.)

Repeater: Radio Specialties (15 watts out, .2 uv sensitivity) 12 ma squelched, 1.8 amperes transmit

Control Operators: Al Bingenheimer WA9RYO, Larry Kaja WA9RWO, John LeFeber W9VAT, Russ Tunks K9YGZ

#### MEMBERSHIP APPLICATION

Membership is \$10 per calendar year. Make check payable to Milwaukee Repeater Club, Inc. Mail to:

MILWAUKEE REPEATER CLUB, P.O. BOX 2123, MILWAUKEE, WI 53201

AL, WA9RYO

Photo finish is about the best description of this system's reentry into Ham Radio.

One minute before the S.E.T. was announced, we were once again serviceable. Our new autopatch minus the 450 link is also functioning. There are still a couple of minor bugs to be ironed out, but we're back after a six week absence. Our next meeting is scheduled for April 19, 1977, at Nino's, Highway 100 and Beloit Road, Milwaukee, 8:00 P.M. Special thanks to Dave, W9CGU, and Brian, K9AQF, for all your time spent getting us airborne again.

73's Jim, WB90JE

#### CQ3TUE WHAT? WHERE? WHEN?

Sometime in the fall of 1972, three Milwaukee Hams decided to meet for lunch and just sort of hash things over. They were W9CTI, W9LJU and W9DVD. From that luncheon came the idea of CQ3TUE - Why not have a place for hams to get together once a month for lunch?

The "CQ3TUE" was adopted to the idea that any and all hams would be welcome to meet for lunch on the third Tuesday of every month—a date selected because it is least apt to be interfered with by a holiday.

Originally, the thought was that if 10 or 15 hams joined in, it would be a successful venture. WOW! Were we fooled! Twenty-nine showed up for the first luncheon on January 16, 1973. Since then, there have been as many as 55 at a get-together. That means hams, novices, YLs, XYLs and SWLs. All are welcome. We've had them come in from all over Wisconsin and even a few from outside the state—Florida and California included.

Unfortunately, of the original group, W9CTI and W9LJU have become silent keys.

Because there have been some misunderstandings in the past, a few things must be emphasized....CQ3TUE is an independent setup. It is NOT a club....there are NO dues....it is non-commercial and has absolutely NO connection with any other group or organization. All a ham has to do is go "dutch" for his own lunch.

THE PLACE: Chef America, 4825 W. Fond du Lac Ave., Milwaukee. (That's the former Sveden House)

THE DATE: The third Tuesday of every month at 12 Noon (or a bit earlier). 73's George, W9DVD

#### 220 MHZ--USE IT OR LOSE IT!

That was a popular statement a couple of years ago when the proposal for Class E Citizen's Band came out. Now the furor seems to have died down.

The Class E proposal is very much alive. Just a few weeks ago the White House Office of Telecommunication Policy told the FCC the best choices for more CB channels are either (1) keep expanding Class D right up to 28.0 MHz, (2) use the 220 MHz Amateur band, or (3) look to 900 MHz. Although number 3 is probably best, I'm sure the manufacturers will say they can't make a low cost transceiver with today's technology. Sunspots make choice #1 impractical, so here we go again on 220 MHz. I would be very safe in assuming that I could count the number of 220 MHz rigs in use in Wisconsin on both hands. Wisconsin has been very conspicuous in its lack of 220 activity. This is a shame as propagation on 220 is almost identical as 2 meters. Lots of equipment is available now for 220. Prices are often less than 2 meter units. For example, although they don't advertise it much, Clegg is selling 220 MHz rigs in quantities to clubs for almost half the price of an equivalent 2 meter unit. Other manufacturers have warehouses full of 220 MHz gear they built in expectation of 220 CB, and now they must dump it to recover capital.

I recently received a request for coordination for a 220 MHz repeater in Milwaukee from Jonesy, WB9RMD.

On his form he wrote the purpose of the application: "Hope to cover Milwaukee County mobile to mobile and stir up some 220 activity." We should all be thankful to Jonesy for doing his part to save 220!

Dave, K9PAK

at a glance ...



Pictured left to right are the newly elected officers of MICORS the 25/85 repeater machine in Milwaukee: President, Paul Leising, WB9KYR; Secretary, Tamar Hornik, WB9LAA; Vice-President, Bob Miller, WB9TFE; and Treasurer, Larry Leranth, WB9JGC. (Photo: WB9FXR)



Ozaukee County Radio Club dues time. (L to R) Ron Yokes, W2HCB/9, and Larry Staats, WA9CNA, paying; Ed Bach, WA9BMA, receiving. (Photo: Ozaukee Club)

## Technical Topics

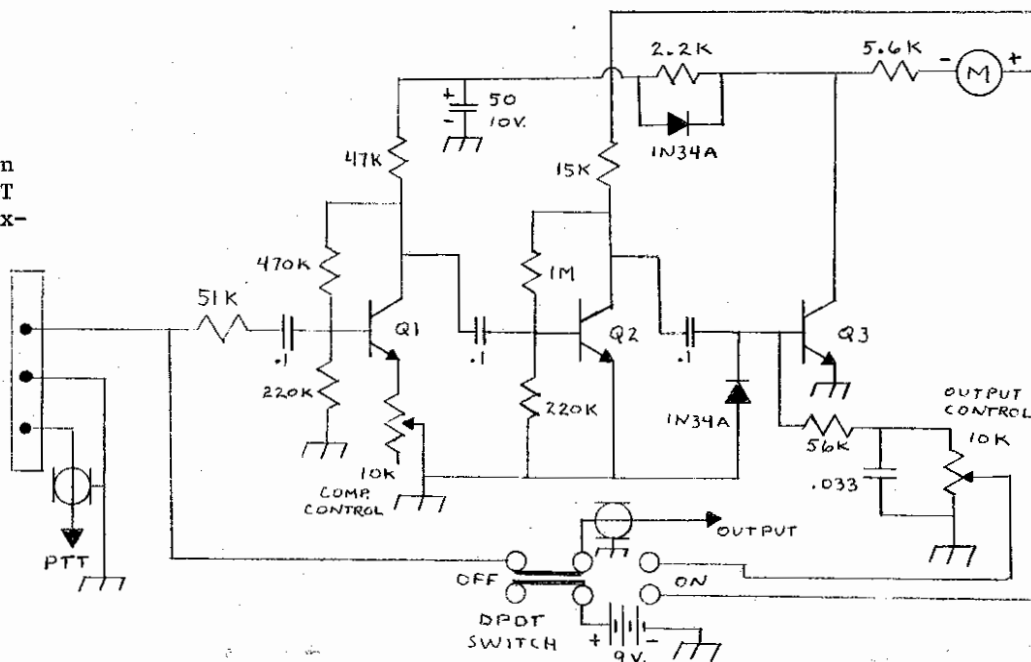
SPEECH COMPRESSOR  
by  
Marsh, WB9FZU

Drawing: WA9VNJ

### Speech Compressor

Testing of this speech compressor on a Swan 250 (SIX METERS), with WA9DOT Jim, brought a report back of approximately 3-4 db gain on his receiver with no distortion.

All resistors are half watt, 10%, Q-1,2,3, 2N2926 or equivalent, .033 C 500V disc. M-1 ma.





## Classified Ads

Until further notice, non-commercial ads will be accepted and published FREE for all newsletter readers. To insure the maximum success of For Sale Ads, all items must include the asking price.

Closing date for ads is the 8th of the publication month. Direct ad copy to: Don Habeck, W9AMM, 5973 Sugarbush Lane, Greendale, WI 53129

|  |  |  |
|--|--|--|
| FOR SALE: Heathkit HW-12 75-mtr ssb xcvr w/Heathkit mobile pwr supply; \$75. Heathkit HW-32 20-mtr ssb xcvr w/Heathkit mobile pwr supply; \$75. Fluke differential ac-dc voltmeter, Model 803; \$40. Berkly E-put freq. counter; \$35. Contact Ken, K9BKJ 282-1244                         | FOR SALE: RTTY equipment (Model 15's) and parts; very reasonable! Contact Steve, WA9WYF, 647-1971, or Paul, WB9HCO, 544-0784   | FOR SALE: 1-kw power amplifier, 5-band, B&W tank, vacuum variable, heavy duty pwr supply, regulated 110-vac input; \$150. Wilson 204M 20-mtr mono-bander beam, assembled and has vibration dampening rope in elements, less than 1 yr old; \$95. Regency HR-2B, fully xtaled; \$145. Contact Kyle, WA9USD 338-6985 (West Bend) |
| FOR SALE: Icom IC-230 synthe-sized 2-mtr xcvr, excellent condx; \$300. Contact Barry, WB9SFK, W55 N838 Cedar Ridge Dr., Cedarburg 53012 375-0590 (after 5 PM)  | FOR SALE: Regency HR-2B w/70db filter, xtaled for 94/94, 25/85, 31/91, 37/97, 07/67, 67/67, 52/52; \$160. Contact Glenn, WA9RTH 466-8328   | FOR SALE: Multi-Elmac AF-68, 80-6 mtrs, am-cw, vfo, w/ac-dc pwr supply; \$60. Clegg FM-27A 2-mtr xcvr; \$200. Contact Don, K9SHJ 421-4241  |
| FOR SALE: Heath Sixer w/mike; \$22. Ameco 6-mtr converter w/p.s. 7-mhz i.f.; \$25. 6-mtr beam, 3-ele High Gain; \$10. 6-mtr Squalo; \$4. Halicrafters speaker w/cabinet R-48; \$8. Bug key; \$10. GE 1-h.p. motors; \$50. Contact Ray, W9NFK, 14735 Marcella Ln, Brookfield 53005 781-7323 | FOR SALE: Swan Cygnet 270, 80-10 mtr xcvr, ac-dc, 260 watt ssb input excellent condx, w/mike, perfect mobile rig; asking \$300. Contact Dave, WB9LMG, 12745 Zinke Dr., Brookfield 53005 782-7053 | FOR SALE: R-P Synthesizer, MFA-22 Complete, asking \$160. And a Motorola Motran, 10 watt, complete with a tone-burst and 9 crystals, asking \$230. Must sell. Call Stu, WB9SWM at 352-9254   |
| FOR SALE: Heathkit HW-101 ssb-cw xcvr, 80-10 mtrs, w/HP23B pwr supply and cw filter; \$300. Heathkit SB-301 rec., 80-10 mtrs, w/rtty crystal, cw filter, am filter; \$200. Contact Steve, WA9WYF 647-1971  | FOR SALE: Swan 350C 80-10 mtr xcvr, w/VX-2 vox unit, opposite ssb modification, 117XC pwr supply-speaker, muffin fan, new finals, ext. xtal osc unit; \$350. Contact Pete, WB9QFD 258-7788       | WANTED: Heavy duty crank-up tower. Contact Paul, K9LWT 554-9170 (Racine)   |
|  | FOR SALE: Icom 230 2-mtr synthe-sized rig; \$300. Swan 240 w/remote vfo and Heathkit pwr supply; \$200. Contact Dan, WB9DCX, 5274 N. 84 St. Milwaukee 53225 463-0384                             | WANTED: Tri-band beam. Contact Ray, W9NFK 781-7323   |
|  | FOR SALE: Heathkit HW-32 20 mtr SSB xcvr w/HP-23 power supply and xtal calibrator; \$65. Contact Don, W9AMM 421-1245   | WANTED: Your old newspapers would be appreciated to help support a field day group. Contact Norm, WB9PCQ, for pick-up 764-5998   |

## QUELLING OF A RUMOR

An open letter to the readers of the HAMATEUR:

Some concerned Ham (in an unsigned letter) has written groups with a form letter damaging to myself. This letter, in regards to a pamphlet put out by The Institute of Broadcast Arts of Milwaukee, states that for a fee of \$100, Mr. Thomas Gipson would administer a Novice Amateur Licensing Course at their studio. Last November, I had about 35 students who wanted me to teach a Novice course, as I had just finished one with 15 students in a basement which was too small for a large group. I went looking for a large business or firm that had a large room I could use on Saturdays. The Institute of Broadcast Arts (IBA) had one, and agreed to let me start a class on January 8. The IBA wanted to make up a brochure that would help increase the class size. The room was to be free; my fee was to be \$8 for the 13 week course. When the brochure came out, I was shocked to see what had been printed without first consulting me. I broke off with the school before the first class began and forgot about the whole thing. I took four students in my home at no fee and even paid postage for those who passed their novice exam. I feel this Ham could have come to the source before making written statements he knows nothing about. It is too bad some have to be tarnished because of other's stupidity. The names of my former students, taught without fee are available upon request.

Thomas A. Gipson

(Editors note: I made a personal visit and four phone calls to this studio. They denied knowledge of any Amateur class.)

April 6.....Auction SEWARS  
 Details inside  
 April 15.....QCWA Night at  
 Miller Inn  
 April 25.....6MIC Election  
 of Officers  
 May 26.....Auction MRAC  
 June 4.....QCWA Luncheon

## Upcoming Events

31/91.....May ???  
 25/85.....April 19, 1977  
 6-MIC.....April 25, 1977  
 07/67.....April 5, 1977  
 MRAC.....April 28, 1977  
 93/33.....April 6, 1977  
 Racine.....April 11, 1977  
 QCWA.....April 15, 1977  
 Ozaukee.....April 13, 1977  
 CO3TUE.....April 19, 1977  
 22/82.....April 28, 1977

## Meeting Notices

EDITOR: Larry McCalvy WA9JMO  
 7453 W. Thurston Circle  
 Milwaukee, Wisconsin 53218

**the HAMATEUR**

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